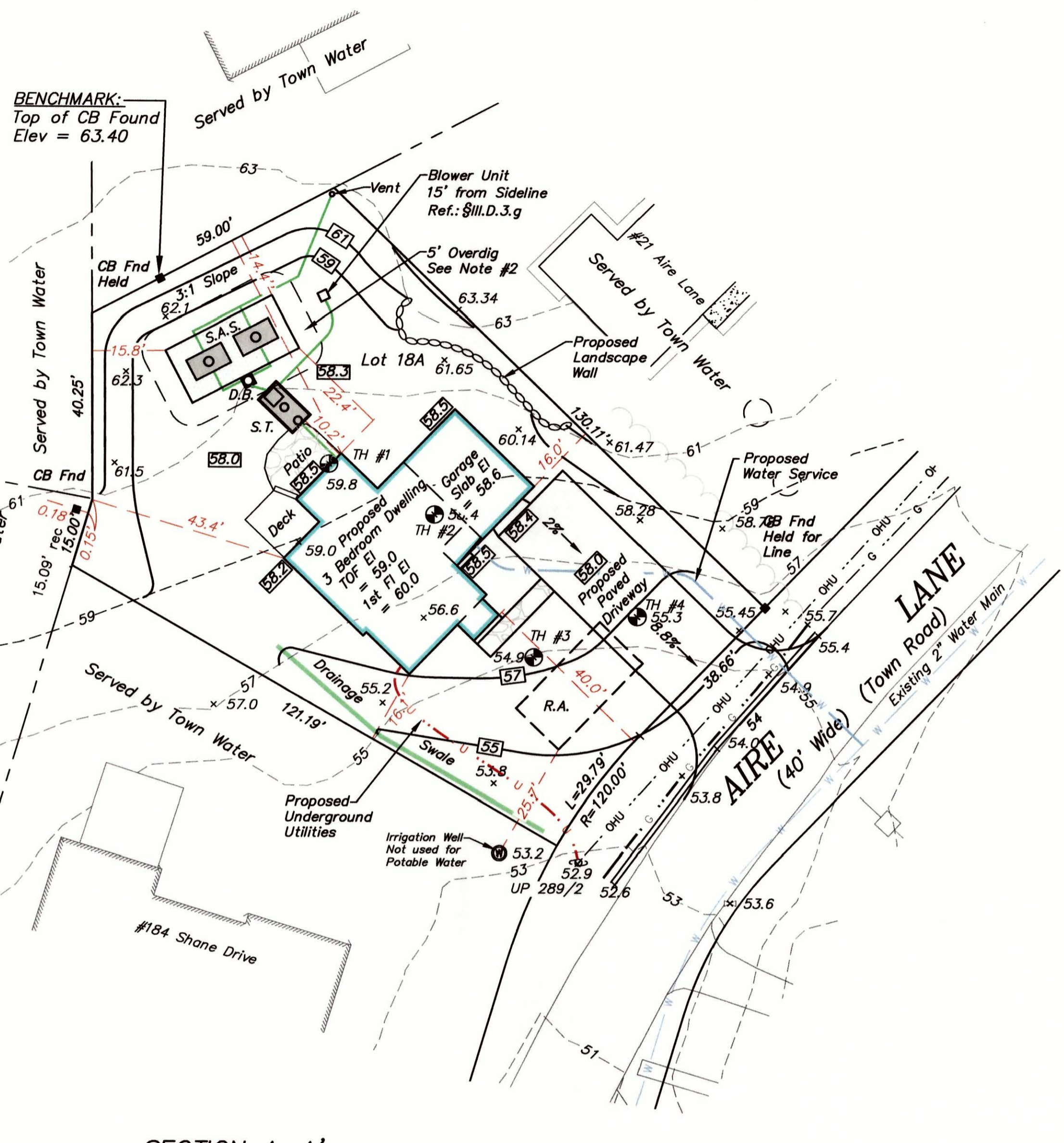


BUILDING HEIGHT REQUIREMENT

Building	Elevation	Average
Northwest	$(57.9 + 58.3 + 58.3 + 58.5)/4 =$	58.2
Northeast	$(58.5 + 58.4 + 58.3)/4 =$	58.4
Southeast	$(58.0 + 57.1 + 55.1)/3 =$	56.7
Southwest	$(55.4 + 56.2 + 57.9)/3 =$	56.5
TOTAL		229.8
$229.8/4 = 57.5 + 30$ Height =		87.5
87.5 - 59.0 (Top of Foundation) =		28.5
28.5 MAXIMUM HEIGHT FROM TOP OF FOUNDATION		
26.6 PROPOSED HEIGHT FROM TOP OF FOUNDATION		

SITE PLAN

Scale 1" = 20'
Record Lot Area = 11,450 S.F. ±
or 0.263 Ac. ±



ZONING REQUIREMENTS

Zone R-20 (Residential)
Minimum Area 20,000 S.F.
Minimum Frontage 100 Ft.
Front Yard Setback 25 Ft.
Side and Rear Yard Setback 15 Ft.
Maximum Lot Coverage N/A
Maximum Building Coverage 1,718 S.F. (15%)
Required Green Area N/A
Front Parking Setback 20 Ft.
Side Parking Setback 10 Ft.
Assessors' ID: 14H-51-B18A

OWNER OF RECORD:
18 Aire Lane LLC
Deed Book 29,168, Page 328
Plan Book 163, Page 145, Lot 18A

SYSTEM DESIGN CALCULATIONS

1.) Basis of Design
 Number of Bedrooms: 3
 Other: 0
 Design Daily Flow Sewage Flow: 330 GPD
 Septic Tank Capacity: Required: 1,100 Gal; Provided: 1,500 Gal

4.) Soil Absorption System Capacity
 Required: 330 GPD; Provided: 349 GPD*

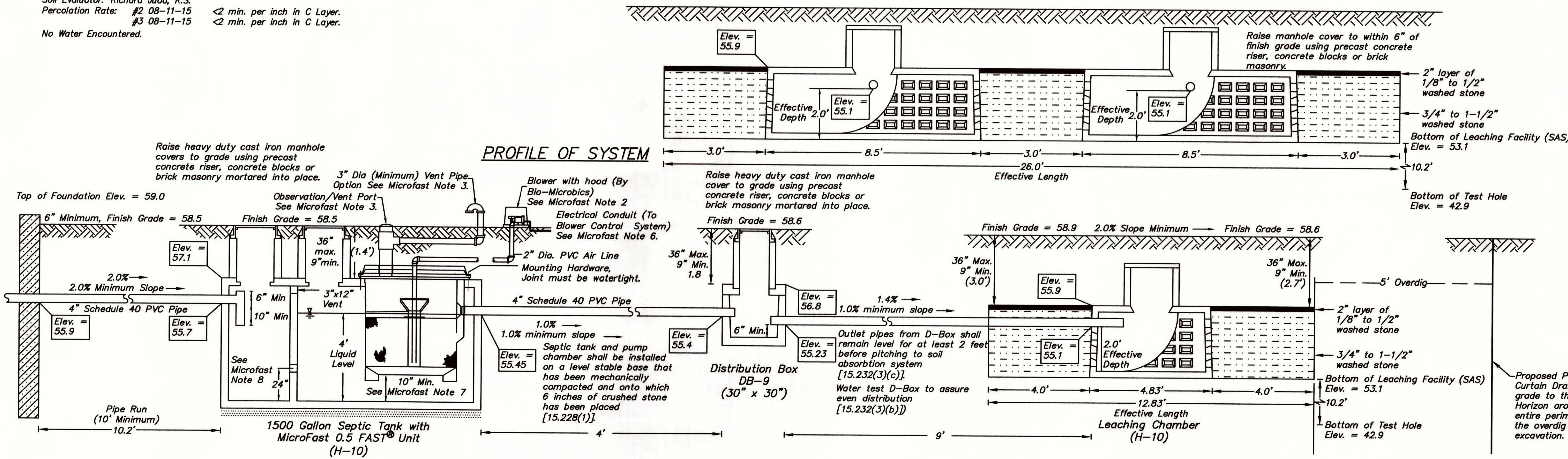
5.) A garbage disposal is NOT permitted with this design.

* $[25 \times (12.83 + 2)] + [2 \times 2 \times 12.83] \times 0.74 = 349$ GPD

DEEP OBSERVATION HOLE LOG

T.H.#1	T.H.#2	T.H.#3	T.H.#4
Date of Test: 08-11-15	Date of Test: 08-11-15	Date of Test: 08-11-15	Date of Test: 08-11-15
Depth Existing Grade	Depth Existing Grade	Depth Existing Grade	Depth Existing Grade
0" Organic 59.8	0" Organic 58.2	0" Organic 54.9	0" Organic 55.3
3" A Sandy Loam 10YR 4/4 59.6	3" A Loamy Sand 10YR 4/4 58.2	2" A Loamy Sand 10YR 4/4 54.7	4" A Loamy Sand 10YR 4/4 55.0
9" B Loamy Fine Sand 10YR 5/6 59.1	8" B Loamy Fine Sand 10YR 5/6 57.7	8" B Loamy Fine Sand 10YR 5/6 54.2	12" B Loamy Fine Sand 10YR 5/6 54.3
26" C1 Sandy Clay Loam 10YR 4/2 75% 5Y 6/1 20% 57.6	32" C1 Sandy Clay Loam 10YR 5/3 80% 5Y 7/3 15% 55.7	38" C1 Sandy Clay Loam 10YR 5/3 75% 5Y 6/1 20% 51.7	36" C1 Sandy Clay Loam 10YR 5/3 75% 5Y 6/1 20% 52.3
(7.6') 91" C2 Coarse Sand 2.5Y 6/4 52.2	(6.2') 74" C2 Coarse Sand 2.5Y 5/4 49.8	(6.7') 80" C2 Coarse Sand 2.5Y 7/3 48.2	(6.5') 78" C2 Coarse Sand 2.5Y 7/3 48.8
(7.6') 150" 47.3	(6.2') 132" 47.4	(6.7') 144" 42.9	(6.5') 140" 43.6

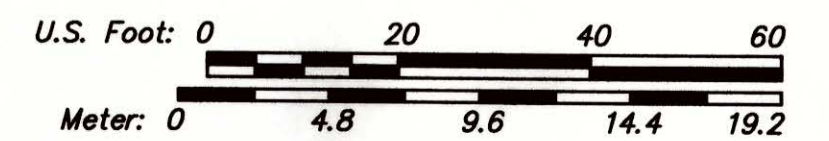
Representative of Approving Authority: Emily Beebe, R.S. Chatham, Health Agent
 Soil Evaluator: Richard Judd, R.S.
 Percolation Rate: #2 08-11-15 < 2 min. per inch in C Layer.
 #3 08-11-15 < 2 min. per inch in C Layer.
 No Water Encountered.



- ### GENERAL NOTES
- Neither driveway nor parking areas are allowed over septic system unless H-20 components are used and system is vented.
 - The designer will not be responsible for the system as designed unless constructed as shown. Any changes must be approved in writing by the designer.
 - Contractor shall be responsible for verifying the location of all underground and overhead utilities prior to the commencement of work.
 - A copy of this plan was submitted to the Chatham Water Department for their review, on

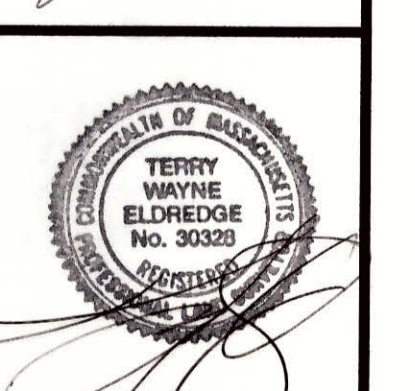
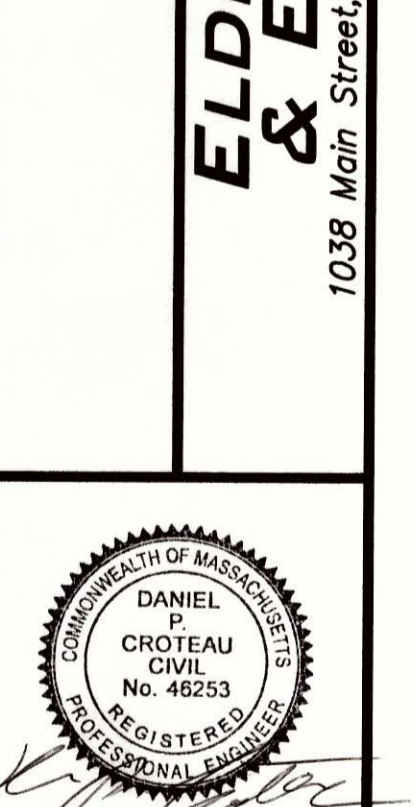
- ### CONSTRUCTION NOTES
- All materials and construction shall conform to the State Environmental Code, Title 5, and the requirements of the local Board of Health.
 - Topsoil, subsoil, peat, or other unsuitable or impervious material [15.255(1)] shall be removed five (5) feet laterally in all directions beyond the outer perimeter of the soil absorption system to the depth of the naturally occurring pervious material(s) and replaced with fill material meeting the specifications of 310 CMR [15.255(3)], [15.255(5)].
 - Septic tank(s), grease trap(s), dosing chamber(s) and distribution box(es) shall be set on a level stable base which has been mechanically compacted. If the component is placed in fill, proper compaction is required to ensure stability and to prevent settling; native ground with a 6 inch stone base is otherwise adequate [15.221(2)].
 - Base aggregate shall consist of 3/4" to 1-1/2" double washed stone free of iron, fines and dust and shall be installed from below the crown of the distribution line to the bottom of the soil absorption system [15.247(1)]. Base aggregate shall be covered with a 2" layer of 1/8" to 1/2" double washed stone free of iron, fines and dust [15.247(2)].
 - From the date of installation of the soil absorption system until receipt of a Certificate of Compliance, the perimeter of the soil absorption system shall be staked and flagged to prevent the use of such area for all activities which might damage the system [15.246(2)].
 - The Board of Health shall require inspection of all construction by an agent of the Board of Health and the designer and shall require such persons to certify in writing that all work has been completed in accordance with the terms of the permit and approved plans. 48 hours advance notice is requested.
 - Whenever sewer lines must cross water supply lines, both pipes shall be constructed of class 150 pressure pipe and shall be pressure tested to assure water tightness; ref: 310 CMR 15.211 (1) [1]. In addition, the Chatham Water and Sewer Departments require: "any sewer pipe installed over any water line will be incased in a ductile iron or schedule 35 P.V.C. sleeve made from one continuous length of pipe; the sleeve will start a minimum of ten (10') feet from the centerline of the water line and end a minimum of ten (10') feet away from the water line on it's opposite side; and if crossing at an angle a longer pipe will be required to meet the ten (10') foot setback."

- ### MICROFAST SYSTEM NOTES
- Raise covers of the septic tank over the inlet tee and the baffle wall to finish grade for inspection purposes [15.228(2)] and Microfast Specifications.
 - Blower must be installed within 100' of fast unit with fewer than 4 elbows in the piping system. For distances greater than 100 feet consult factory. Blower must be located above normal flood levels and piping must be sloped continuously upward.
 - Run vent to desired location and screen with charcoal filter to alleviate odors and to block insects at cap observation/vent pipe with 6" vent grate. See additional view drawings and table for sizing.
 - All appurtenances to the Fast (e.g. septic tank, pumpouts, etc.) must conform to Massachusetts State Codes.
 - Access port cover must allow both the sample port and the observation port to pass air freely to the vent pipe. The lid must have a padlock or require a special tool for removal.
 - Blower control system by Bio-Microbics, Inc.
 - Tank size must be increased by 20% if minimum of 10 inches is used between the unit and the base of the tank. Consult factory for approval.
 - The primary compartment may be a separate tank.
 - Four leg extensions may be used to stand unit in tank eliminating the need for the lid, refer to installation manual for more information.
 - See Microfast Specifications, Microfast Installation Manual and Bio-Microbics, Inc. for additional information pertaining to the design, installation and inspection of the system.



SEWAGE DISPOSAL SYSTEM PLAN
 Lot 18A Aire Lane, Chatham, Massachusetts
 Date
 Description of Revision

AIRE LANE LLC
 ELDRIDGE SURVEYING & ENGINEERING, LLC
 1038 Main Street, Chatham, MA; (508) 945-3965; Fax: (508) 945-5885



Date: 10-15-2015
 Scale: As Noted
 Project No.: C-2313-04.0
 Sheet No.: